#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

### (19) World Intellectual Property Organization

International Bureau



## ) – THORIA BHILDON II DORNIO NOLL BONI DONI DI HI DI NI DI NI DONIO DINI LLOBO HI II I DODO HIK BILLIH HORIA KODI DORI

(43) International Publication Date 12 August 2004 (12.08.2004)

PCT

# (10) International Publication Number WO 2004/067313 A1

(51) International Patent Classification7:

B60N 2/235

(21) International Application Number:

PCT/US2004/002244

(22) International Filing Date: 26 January 2004 (26.01.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/442,437

24 January 2003 (24.01.2003) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

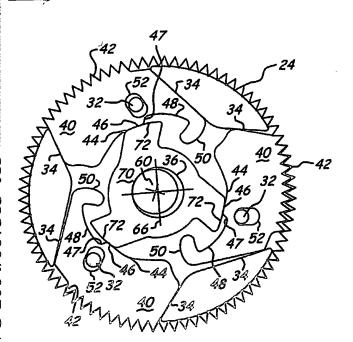
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: RECLINER ASSSEMBLY FOR AN AUTOMOTIVE VEHICLE SEAT HAVING A FLOATING CAM



(57) Abstract: A recliner assembly is disclosed for providing selective pivotal adjustment of a seat back (14) relative to a seat cushion (12) . The recliner assembly includes a fixed plate (30) fixedly secured to the seat cushion and a mobile plate (30) fixedly secured to the seat back. The mobile plate is fixedly secured to the fixed plate. The mobile plate includes an annular rim having a plurality of teeth (62). A pawl is slidably supported between the fixed and mobile plates for movement in and out of locking engagement with the plurality of teeth. A cam (70) is fixedly secured to a shaft (60) rotatably journaled through an aperture (36) formed in the mobile plate. The aperture is oversized relative to the shaft to allow the shaft and the cam to float radially relative to the pawl to help prevent binding of the pawl during movement in and out of locking engagement with the plurality of teeth.

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# INTERNATIONAL SEARCH REPORT

Internal Application No 2004/002244

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т	PC /	B60N2	/ 233	

According to International Patent Classification (IPC) or to both national classification and IPC

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B60N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUME	NTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	
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	-/	

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
"A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the International filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the Invention  "X" document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to Involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed Invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family  Date of mailing of the international search report
Date of the actual completion of the international search	Date of maining of the state.
1 July 2004	13/07/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,  Fax: (+31–70) 340–3016	Pétiaud, A

# INTERNATIONAL SEARCH REPORT

Internal Application No P \$2004/002244

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Ą	EP 1 195 115 A (NHK SPRING CO LTD) 10 April 2002 (2002-04-10) figure 16	1,3,20, 29
a a		





Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Inte	rmational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)
This Inte	mational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. X	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-19

Recliner assembly with self-adjusting rack of teeth

2. claims: 20-28

Recliner assembly including a cam with axially extending pin

3. claim: 29

Reclined assembly with a fixed plate including wedge surfaces

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Internal Application No